

EAST Search History

10/8/13, 617

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	707/101.ccls. and ((download\$4 or transf\$4 or transmit\$4) with sub\$1page) and @ad < "20031126"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/09 13:18
L2	359	707/102.ccls. and ((download\$4 or transf\$4 or transmit\$4) with page) and @ad < "20031126"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/09 13:19
L3	155	707/102.ccls. and ((download\$4 or transf\$4 or transmit\$4) with page) and @ad < "20031126" and (creat\$4 with page)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/09 13:19
L4	144	707/102.ccls. and ((download\$4 or transf\$4 or transmit\$4) with page) and @ad < "20031126" and (creat\$4 with page) and @ad<"20030324"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/09 13:19
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L6	344	707/10.ccls. and ((download\$4 or transf\$4 or transmit\$4) with page) and @ad < "20031126" and (creat\$4 with page) and @ad<"20030324"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/09 13:21
L7	2	"20050114162"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/09 13:22
L8	9	((divid\$4 or partition\$4) near2 page) with sub\$1page) and @ad < "20031126"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/09 13:22
L9	10	((download\$4 or transf\$4 or transmit\$4) with sub\$1page) and @ad < "20031126" and (divid\$4 with page)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/09 13:22

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L10	67	((download\$4 or trans\$4 or transmit\$4) with sub\$1page) and @ad < "20031126"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/09 13:22
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S9	0	707/101.ccls. and S8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 17:44
S10	0	707/101.ccls. and (((divid\$4 or partition\$4) near2 page) with sub\$1page) and @ad < "20031126"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 17:44
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S16	27	creat\$4 with sub\$1page	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 19:24
S17	4	(creat\$4 with sub\$1page) and atom\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 19:24
S18	1	(creat\$4 with sub\$1page) and atom\$3 and weight	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 19:24



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1 [Level set and PDE methods for computer graphics](#)



David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.07 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

2 [Exploiting perception in high-fidelity virtual environments: Exploiting perception in high-fidelity virtual environments](#)



Additional presentations from the 24th course are available on the citation page

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez
July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**

Publisher: ACM Press

Full text available: pdf(5.07 MB) mov(68:6 MIN) Additional Information: [full citation](#), [abstract](#), [references](#)

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques in collaboration, graphical, auditory, and haptic rendering. We aim to show how human perception is exploited to achieve realism in high fidelity environments within the constraints of available finite computational resources. In this course w ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

3 [Special issue on knowledge representation](#)

Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press



Full text available: [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...

4 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 Distributed systems - programming and management: On remote procedure call

Patrícia Gomes Soares

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2 CASCON '92**

Publisher: IBM Press

Full text available: [pdf\(4.52 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

6 Special issue: AI in engineering



D. Sriram, R. Joobhani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

7 Geometric modeling based on triangle meshes: Geometric modeling based on triangle meshes



Mario Botsch, Mark Pauly, Christian Rossl, Stephan Bischoff, Leif Kobbelt

July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**

Publisher: ACM Press

Full text available: [pdf\(24.22 MB\)](#) Additional Information: [full citation](#), [references](#)

8 Shape-based retrieval and analysis of 3D models

Thomas Funkhouser, Michael Kazhdan

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(12.56 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

9 Distributed file systems: concepts and examples

Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: [pdf\(5.33 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

10 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels

Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Publisher: ACM Press

Full text available: [pdf\(6.06 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

11 Divide-and-query and subterm dependency tracking in the mercury declarative debugger

Ian MacLarty, Zoltan Somogyi, Mark Brown

September 2005 **Proceedings of the sixth international symposium on Automated analysis-driven debugging AADEBUG'05**

Publisher: ACM Press

Full text available: [pdf\(232.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We have implemented a declarative debugger for Mercury that is capable of finding bugs in large, long-running programs. This debugger implements several search strategies. We discuss the implementation of two of these strategies and the conditions under which

each strategy is useful. The divide and query strategy tries to minimize the number of questions asked of the user. While divide and query can reduce the number of questions to roughly logarithmic in the size of the computation, implementing ...

Keywords: algorithmic debugging, declarative debugging, divide-and-query, program slicing

12 Recreational computer graphics: Recreational computer graphics



Andrew Glassner

July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**

Publisher: ACM Press

Full text available: pdf(13.82 MB) Additional Information: [full citation](#), [abstract](#)

Computer graphics isn't just a bunch of algorithms and programs: it's a gymnasium for the visual imagination, and a tool for investigating the world around us. Graphics can help us understand nature, invent new kinds of patterns and shapes, build up the clarity of our own mind's eye, and experiment with construction tools that would inspire even the most classical sculptors and painters. Going beyond tools and technique, this course invites attendees to think about using computer graphics in new ...

13 A reliable multicast framework for light-weight sessions and application level framing

Sally Floyd, Van Jacobson, Ching-Gung Liu, Steven McCanne, Lixia Zhang

December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6

Publisher: IEEE Press

Full text available: pdf(310.74 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: Internetworking, computer network performance, computer networks

14 Pen computing: a technology overview and a vision



André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(5.14 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

15 Point-based computer graphics



Marc Alexa, Markus Gross, Mark Pauly, Hanspeter Pfister, Marc Stamminger, Matthias Zwicker

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(8.94 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

This course introduces points as a powerful and versatile graphics primitive. Speakers present their latest concepts for the acquisition, representation, modeling, processing, and rendering of point sampled geometry along with applications and research directions.

We describe algorithms and discuss current problems and limitations, covering important aspects of point based graphics.

16 Technical papers: mobile and distributed computing: Network abstractions for context-aware mobile computing



Gruia-Catalin Roman, Christine Julien, Qingfend Huang

May 2002 **Proceedings of the 24th International Conference on Software Engineering ICSE '02**

Publisher: ACM Press

Full text available: pdf(1.33 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Context-aware computing is characterized by the ability of a software system to continuously adapt its behavior to a changing environment over which it has little or no control. Previous work along these lines presumed a rather narrow definition of context, one that was centered on resources immediately available to the component in question, e.g., communication bandwidth, physical location, etc. This paper explores context-aware computing in the setting of ad hoc networks consisting of numerous ...

17 Modeling and validation: Software partitioning for effective automated unit testing



Arindam Chakrabarti, Patrice Godefroid

October 2006 **Proceedings of the 6th ACM & IEEE International conference on Embedded software EMSOFT '06**

Publisher: ACM Press

Full text available: pdf(342.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A key problem for effective unit testing is the difficulty of partitioning large software systems into appropriate units that can be tested in isolation. We present an approach that identifies control and data inter-dependencies between software components using static program analysis, and divides the source code into units where highly-intertwined components are grouped together. Those units can then be tested in isolation using automated test generation techniques and tools, such as dynamic so ...

Keywords: compositional analysis, interfaces, program verification, software testing and model checking

18 Capriccio: scalable threads for internet services



Rob von Behren, Jeremy Condit, Feng Zhou, George C. Necula, Eric Brewer

October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5

Publisher: ACM Press

Full text available: pdf(312.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents Capriccio, a scalable thread package for use with high-concurrency servers. While recent work has advocated event-based systems, we believe that thread-based systems can provide a simpler programming model that achieves equivalent or superior performance. By implementing Capriccio as a user-level thread package, we have decoupled the thread package implementation from the underlying operating system. As a result, we can take advantage of cooperative threading, new asynchronous ...

Keywords: blocking graph, dynamic stack growth, linked stack management, resource-aware scheduling, user-level threads

19 Spoken dialogue technology: enabling the conversational user interface



Michael F. McTear

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Publisher: ACM Press

Full text available: pdf(987.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

20 A declarative approach to optimize bulk loading into databases



Siham Amer-Yahia, Sophie Cluet

June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(1.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Applications, such as warehouse maintenance, need to load large data volumes regularly. The efficiency of loading depends on the resources that are available at the source and at the target systems. Our work aims to understand the performance criteria that are involved in bulk loading data into a database and to devise tailored optimization strategies. Unlike commercial systems and previous research on the same topic, our approach follows the fundamental database principle of physical-logical ind ...

Keywords: Declarative bulk loading, algebra, recovery, side-effects

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21 [Case study: IBM's system/360-370 architecture](#)



David Gifford, Alfred Spector

April 1987 **Communications of the ACM**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(2.86 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The architecture of IBM's System/360-370 series of compatible processors is one of the most durable artifacts of the computer age. Through two major revisions of the product line and 23 years of technological change, it has remained a viable and versatile interface between machine and user.

22 [Dynamic metrics for java](#)



Bruno Dufour, Karel Driesen, Laurie Hendren, Clark Verbrugge

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications OOPSLA '03**, Volume 38 Issue 11

Publisher: ACM Press

Full text available: pdf(222.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In order to perform meaningful experiments in optimizing compilation and run-time system design, researchers usually rely on a suite of benchmark programs of interest to the optimization technique under consideration. Programs are described as *numeric*, *memory-intensive*, *concurrent*, or *object-oriented*, based on a qualitative appraisal, in some cases with little justification. We believe it is beneficial to quantify the behaviour of programs with a concise and precisely ...

Keywords: Java, dynamic metrics, execution traces, optimization, profiling, program analysis, software metrics


23 [Extending Java for high-level Web service construction](#)



Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Publisher: ACM Press

Full text available:  pdf(947.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

24 [Introducing Ada 9X](#)



John Barnes

November 1993 **ACM SIGAda Ada Letters**, Volume XIII Issue 6

Publisher: ACM Press

Full text available:  pdf(4.39 MB) Additional Information: [full citation](#), [citations](#), [index terms](#)

25 [Design and evaluation of dynamic optimizations for a Java just-in-time compiler](#)




Toshio Suganuma, Toshiaki Yasue, Motohiro Kawahito, Hideaki Komatsu, Toshio Nakatani

July 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 27 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.60 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The high performance implementation of Java Virtual Machines (JVM) and Just-In-Time (JIT) compilers is directed toward employing a dynamic compilation system on the basis of online runtime profile information. The trade-off between the compilation overhead and performance benefit is a crucial issue for such a system. This article describes the design and implementation of a dynamic optimization framework in a production-level Java JIT compiler, together with two techniques for profile-directed o ...

Keywords: JIT compiler, Recompilation, adaptive optimization, code specialization, dynamic compilation, profile-directed method inlining

26 [Processor Acceleration Through Automated Instruction Set Customization](#)

Nathan Clark, Hongtao Zhong, Scott Mahlke

December 2003 **Proceedings of the 36th annual IEEE/ACM International Symposium on Microarchitecture MICRO 36**

Publisher: IEEE Computer Society

Full text available:  pdf(342.27 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Application-specific extensions to the computational capabilities of a processor provide an efficient mechanism to meet the growing performance and power demands of embedded applications. Hardware, in the form of new function units (or co-processors), and the corresponding instructions, are added to a baseline processor to meet the critical computational demands of a target application. The central challenge with this approach is the large degree of human effort required to identify and create the cu ...


27 [Distributed operating systems](#)



Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available:  pdf(5.49 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

28 Education and evaluation: Implementation and evaluation of a quality-based search engine

Thomas Mandl

August 2006

Proceedings of the seventeenth conference on Hypertext and hypermedia HYPERTEXT '06

Publisher: ACM Press

Full text available:  pdf(353.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, an approach for the implementation of a quality-based Web search engine is proposed. Quality retrieval is introduced and an overview on previous efforts to implement such a service is given. Machine learning approaches are identified as the most promising methods to determine the quality of Web pages. Features for the most appropriate characterization of Web pages are determined. A quality model is developed based on human judgments. This model is integrated into a meta search eng ...

Keywords: quality models, quality search, web design, web metrics


29 Efficient multiple and predicated dispatching

Craig Chambers, Weimin Chen

October 1999

ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '99, Volume 34 Issue 10

Publisher: ACM Press

Full text available:  pdf(2.41 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The speed of message dispatching is an important issue in the overall performance of object-oriented programs. We have developed an algorithm for constructing efficient dispatch functions that combines novel algorithms for efficient single dispatching, multiple dispatching, and predicate dispatching. Our algorithm first reduces methods written in the general predicate dispatching model (which generalizes single dispatching, multiple dispatching, predicate classes and classifiers, and pattern ...


30 Performance evaluation of the Orca shared-object system

Henri E. Bal, Raoul Bhoedjang, Rutger Hofman, Ciel Jacobs, Koen Langendoen, Tim Rühl, M. Frans Kaashoek

February 1998

ACM Transactions on Computer Systems (TOCS), Volume 16 Issue 1

Publisher: ACM Press

Full text available:  pdf(179.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Orca is a portable, object-based distributed shared memory (DSM) system. This article studies and evaluates the design choices made in the Orca system and compares Orca with other DSMs. The article gives a quantitative analysis of Orca's coherence protocol (based on write-updates with function shipping), the totally ordered group communication

protocol, the strategy for object placement, and the all-software, user-space architecture. Performance measurements for 10 parallel applications ill ...

Keywords: distributed shared memory, parallel processing, portability

31 How to Fake 1000 Registers

David W. Oehmke, Nathan L. Binkert, Trevor Mudge, Steven K. Reinhardt
November 2005 **Proceedings of the 38th annual IEEE/ACM International Symposium on Microarchitecture MICRO 38**

Publisher: IEEE Computer Society

Full text available:  [pdf\(318.71 KB\)](#)



[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Large numbers of logical registers can improve performance by allowing fast access to multiple subroutine contexts (register windows) and multiple thread contexts (multithreading). Support for both of these together requires a multiplicative number of registers that quickly becomes prohibitive. We overcome this limitation with the virtual context architecture (VCA), a new register-file architecture that virtualizes logical register contexts. VCA works by treating the physical registers as a cach ...

32 Locality phase prediction

 Xipeng Shen, Yutao Zhong, Chen Ding
October 2004 **ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , ACM SIGARCH Computer Architecture News , Proceedings of the 11th international conference on Architectural support for programming languages and operating systems ASPLOS-XI**, Volume 38 , 39 , 32 Issue 5 , 11 , 5

Publisher: ACM Press

Full text available:  [pdf\(739.91 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


As computer memory hierarchy becomes adaptive, its performance increasingly depends on forecasting the dynamic program locality. This paper presents a method that predicts the locality phases of a program by a combination of locality profiling and run-time prediction. By profiling a training input, it identifies locality phases by sifting through all accesses to all data elements using variable-distance sampling, wavelet filtering, and optimal phase partitioning. It then constructs a phase hiera ...

Keywords: dynamic optimization, locality analysis and optimization, phase hierarchy, program phase analysis and prediction, reconfigurable architecture

33 On modeling information retrieval with probabilistic inference

 S. K. M. Wong, Y. Y. Yao
January 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.71 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article examines and extends the logical models of information retrieval in the context of probability theory. The fundamental notions of term weights and relevance are given probabilistic interpretations. A unified framework is developed for modeling the retrieval process with probabilistic inference. This new approach provides a common conceptual and mathematical basis for many retrieval models, such as the Boolean, fuzzy set, vector space, and conventional probabilistic models. With ...

34 WISR'93: 6th annual workshop on software reuse: summary and working group



reports

Jeff Poulin, Will Tracz
January 1994 **ACM SIGSOFT Software Engineering Notes**, Volume 19 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.73 MB\)](#) Additional Information: [full citation](#), [index terms](#)

35 Case studies: P3I: the Delaware programmability, productivity and proficiency inquiry



Joseph B. Manzano, Yuan Zhang, Guang R. Gao

May 2005 **Proceedings of the second international workshop on Software engineering for high performance computing system applications SE-HPCS '05**

Publisher: ACM Press

Full text available: [pdf\(422.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

New advancements on high-productivity computing systems have shown the weaknesses of existing parallel programming models and languages. To address such weaknesses, a number of researchers have proposed new parallel programming models and powerful programming language features that can meet the challenges of the emerging HPC Systems. However, the success or the failure of a new programming model and accompanied language features need to be evaluated in the context of their productivity impacts. ...

36 Paradigms for process interaction in distributed programs



Gregory R. Andrews

March 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 1

Publisher: ACM Press

Full text available: [pdf\(3.77 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#), [review](#)

Distributed computations are concurrent programs in which processes communicate by message passing. Such programs typically execute on network architectures such as networks of workstations or distributed memory parallel machines (i.e., multicomputers such as hypercubes). Several paradigms—examples or models—for process interaction in distributed computations are described. These include networks of filters, clients, and servers, heartbeat algorithms, probe/echo algorithms, broa ...

Keywords: clients and servers, distributed and parallel algorithms, distributed programming, distributed programming methods, heartbeat algorithms, networks of filters, patterns for interprocess communication, probe/echo algorithms, replicated servers, token-passing algorithms

37 Ethnographic data for product development: a collaborative process



Scott Lewis, Michael Mateas, Susan Palmiter, Gene Lynch

December 1996 **interactions**, Volume 3 Issue 6

Publisher: ACM Press

Full text available: [pdf\(576.41 KB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

38 Compile/run-time support for threaded MPI execution on multiprogrammed shared memory machines




Hong Tang, Kai Shen, Tao Yang

May 1999 **ACM SIGPLAN Notices , Proceedings of the seventh ACM SIGPLAN**

symposium on Principles and practice of parallel programming PPOPP '99,

Volume 34 Issue 8

Publisher: ACM Press

Full text available:  pdf(1.54 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)


MPI is a message-passing standard widely used for developing high-performance parallel applications. Because of the restriction in the MPI computation model, conventional implementations on shared memory machines map each MPI node to an OS process, which suffers serious performance degradation in the presence of multiprogramming, especially when a space/time sharing policy is employed in OS job scheduling. In this paper, we study compile-time and run-time support for MPI by using threads and dem ...

39 Query clustering using user logs



January 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.31 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#), [review](#)

Query clustering is a process used to discover frequently asked questions or most popular topics on a search engine. This process is crucial for search engines based on question-answering. Because of the short lengths of queries, approaches based on keywords are not suitable for query clustering. This paper describes a new query clustering method that makes use of user logs which allow us to identify the documents the users have selected for a query. The similarity between two queries may be ded ...

Keywords: Query clustering, search engine, user log, web data mining


40 The space shuttle primary computer system



Alfred Spector, David Gifford

September 1984 **Communications of the ACM**, Volume 27 Issue 9

Publisher: ACM Press

Full text available:  pdf(5.34 MB)

Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

Keywords: PASS, avionics system, space shuttle

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41 [Parallel construction and query of suffix trees for two-dimensional matrices](#)



Raffaele Giancarlo, Roberto Grossi

August 1993 **Proceedings of the fifth annual ACM symposium on Parallel algorithms and architectures SPAA '93**

Publisher: ACM Press

Full text available: pdf(1.37 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

42 [An Architecture Framework for Transparent Instruction Set Customization in](#)



[Embedded Processors](#)

Nathan Clark, Jason Blome, Michael Chu, Scott Mahlke, Stuart Biles, Krisztian Flautner

May 2005 **ACM SIGARCH Computer Architecture News , Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05**, Volume 33 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(379.01 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Instruction set customization is an effective way to improve processor performance. Critical portions of application data-flow graphs are collapsed for accelerated execution on specialized hardware. Collapsing dataflow subgraphs will compress the latency along critical paths and reduces the number of intermediate results stored in the register file. While custom instructions can be effective, the time and cost of designing a new processor for each application is immense. To overcome this roadblock ...

43 [From text to hypertext by indexing](#)



Airi Salminen, Jean Tague-Sutcliffe, Charles McClellan

January 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 1

Publisher: ACM Press

Full text available: pdf(1.98 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


A model is presented for converting a collection of documents to hypertext by means of indexing. The documents are assumed to be semistructured, i.e., their text is a hierarchy of parts, and some of the parts consist of natural language. The model is intended as a framework for specifying hypertextual reading capabilities for specific application areas and for developing new automated tools for the conversion of semistructured text to hypertext. In the model, two well-known paradigms— ...

Keywords: constrained grammars, grammars, hypertext, properties, structured text, test types, text entities, transient hypergraphs

44 Practical byzantine fault tolerance and proactive recovery

 Miguel Castro, Barbara Liskov
November 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4


Publisher: ACM Press

Full text available:  pdf(1.63 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions and they can cause arbitrary behavior, that is, Byzantine faults. This article describes a new replication algorithm, BFT, that can be used to build highly available systems that tolerate Byzantine faults. BFT can be used in practice to implement re ...

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer

45 The data locality of work stealing

 Umut A. Acar, Guy E. Blelloch, Robert D. Blumofe
July 2000 **Proceedings of the twelfth annual ACM symposium on Parallel algorithms and architectures SPAA '00**

Publisher: ACM Press


Full text available:  pdf(259.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper studies the data locality of the work-stealing scheduling algorithm on hardware-controlled shared-memory machines. We present lower and upper bounds on the number of cache misses using work stealing, and introduce a locality-guided work-stealing algorithm along with experimental validation. As a lower bound, we show that there is a family of multi-threaded computations G_n each member of which requires $\Omega(n \log n)$ cache misses.

46 Probabilistic object bases

 Thomas Eiter, James J. Lu, Thomas Lukasiewicz, V. S. Subrahmanian
September 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 3

Publisher: ACM Press

Full text available:  pdf(663.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although there are many applications where an object-oriented data model is a good way of representing and querying data, current object database systems are unable to handle objects whose attributes are uncertain. In this article, we extend previous work by Kornatzky and Shimony to develop an algebra to handle object bases with uncertainty. We propose concepts of consistency for such object bases, together with an NP-completeness result, and classes of probabilistic object bases for which consistency can be decided.


Keywords: Consistency, object-oriented database, probabilistic object algebra, probabilistic object base, probability, query language, query optimization

47 Dynamic voting algorithms for maintaining the consistency of a replicated database

S. Jajodia, David Mutchler


 June 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 2

Publisher: ACM Press

Full text available:  pdf(4.07 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


There are several replica control algorithms for managing replicated files in the face of network partitioning due to site or communication link failures. Pessimistic algorithms ensure consistency at the price of reduced availability; they permit at most one (distinguished) partition to process updates at any given time. The best known pessimistic algorithm, voting, is a "static" algorithm, meaning that all potential distinguished partitions can be listed in adv ...

48 Space-time scheduling of instruction-level parallelism on a raw machine

 Walter Lee, Rajeev Barua, Matthew Frank, Devabhaktuni Srikrishna, Jonathan Babb, Vivek Sarkar, Saman Amarasinghe


October 1998 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the eighth international conference on Architectural support for programming languages and operating systems ASPLOS-VIII**, Volume 33 , 32 Issue 11 , 5

Publisher: ACM Press

Full text available:  pdf(1.79 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Increasing demand for both greater parallelism and faster clocks dictate that future generation architectures will need to decentralize their resources and eliminate primitives that require single cycle global communication. A Raw microprocessor distributes all of its resources, including instruction streams, register files, memory ports, and ALUs, over a pipelined two-dimensional mesh interconnect, and exposes them fully to the compiler. Because communication in Raw machines is distributed, com ...

49 Coupling and cohesion metrics for knowledge-based systems using frames and rules

 Stefan Kramer, Hermann Kaindl

July 2004 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 13 Issue 3


Publisher: ACM Press

Full text available:  pdf(190.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software systems and in particular also knowledge-based systems (KBS) become increasingly large and complex. In response to this challenge, software engineering has a long tradition of advocating modularity. This has also heavily influenced object-oriented development. For measuring certain important aspects of modularity, coupling and cohesion metrics have been developed. Metrics have also attracted considerable attention for object-oriented development. For KBS development, however, no such ...


Keywords: Coupling, cohesion, knowledge-based systems

50 Using temporal hierarchies to efficiently maintain large temporal databases

 Thomas Dean

October 1989 **Journal of the ACM (JACM)**, Volume 36 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many real-world applications involve the management of large amounts of time-dependent information. Temporal database-systems maintain this information in order to support various sorts of inference (e.g., answering questions involving propositions that

are true over some intervals and false over others). For any given proposition, there are typically many different occasions on which that proposition becomes true and persists for some length of time. In this paper, these occasions are re ...

51 Dynamic software updating



Michael Hicks, Scott Nettles

November 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 27 Issue 6

Publisher: ACM Press

Full text available: [pdf\(622.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many important applications must run continuously and without interruption, and yet also must be changed to fix bugs or upgrade functionality. No prior general-purpose methodology for dynamic updating achieves a practical balance between flexibility, robustness, low overhead, ease of use, and low cost. We present an approach for C-like languages that provides type-safe dynamic updating of native code in an extremely flexible manner---code, data, and types may be updated, at programmer-determined ...

Keywords: Dynamic software updating, typed assembly language

52 Complexity-effective superscalar processors



Subbarao Palacharla, Norman P. Jouppi, J. E. Smith

May 1997 **ACM SIGARCH Computer Architecture News , Proceedings of the 24th annual international symposium on Computer architecture ISCA '97**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: [pdf\(2.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The performance tradeoff between hardware complexity and clock speed is studied. First, a generic superscalar pipeline is defined. Then the specific areas of register renaming, instruction window wakeup and selection logic, and operand bypassing are analyzed. Each is modeled and Spice simulated for feature sizes of 0.8 μ m, 0.35 μ m, and 0.18 μ m. Performance results and trends are expressed in terms of issue width and window size. Our analysis indicates that window wakeu ...

53 Network Protocols



Andrew S. Tanenbaum

December 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 4

Publisher: ACM Press

Full text available: [pdf\(3.37 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

54 Shoring up persistent applications



Michael J. Carey, David J. DeWitt, Michael J. Franklin, Nancy E. Hall, Mark L. McAuliffe, Jeffrey F. Naughton, Daniel T. Schuh, Marvin H. Solomon, C. K. Tan, Odysseas G. Tsatalos, Seth J. White, Michael J. Zwilling

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94**, Volume 23 Issue 2


Publisher: ACM Press

Full text available: [pdf\(1.40 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

SHORE (Scalable Heterogeneous Object REpository) is a persistent object system under development at the University of Wisconsin. SHORE represents a merger of object-

oriented database and file system technologies. In this paper we give the goals and motivation for SHORE, and describe how SHORE provides features of both technologies. We also describe some novel aspects of the SHORE architecture, including a symmetric peer-to-peer server architecture, server customization through an extensible ...

55 Systems and interfaces: A real-time multimedia composition layer

 Stefan Müller, Simon Schubiger-Banz, Matthias Specht
October 2006 **Proceedings of the 1st ACM workshop on Audio and music computing multimedia AMCMM '06**


Publisher: ACM Press

Full text available:  pdf(2.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce a light-weight multimedia composition layer which is situated on top of existing music, sound, and graphics frameworks and libraries. The layer provides applications with a programming interface for multimedia composition, automating real-time media processing and synchronisation. Our work facilitates the mapping of media frameworks to a unified processing graph. We present a graph segmentation algorithm that solves the problem of communication between threads of multiple frameworks ...

Keywords: cross-media processing, multimedia composition, multimedia frameworks and libraries, real-time multimedia


56 Application performance and flexibility on exokernel systems

 M. Frans Kaashoek, Dawson R. Engler, Gregory R. Ganger, Hector M. Briceño, Russell Hunt, David Mazières, Thomas Pinckney, Robert Grimm, John Jannotti, Kenneth Mackenzie
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5


Publisher: ACM Press

Full text available:  pdf(2.39 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

57 Adaptive software cache management for distributed shared memory architectures

 John K. Bennett, John B. Carter, Willy Zwaenepoel
May 1990 **ACM SIGARCH Computer Architecture News , Proceedings of the 17th annual international symposium on Computer Architecture ISCA '90**, Volume 18 Issue 3a

Publisher: ACM Press

Full text available:  pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An adaptive cache coherence mechanism exploits semantic information about the expected or observed access behavior of particular data objects. We contend that, in distributed shared memory systems, adaptive cache coherence mechanisms will outperform static cache coherence mechanisms. We have examined the sharing and synchronization behavior of a variety of shared memory parallel programs. We have found that the access patterns of a large percentage of shared data objects fa ...

58 Delirium: an embedding coordination language

Steven Lucco, Oliver Sharp
November 1990 **Proceedings of the 1990 ACM/IEEE conference on Supercomputing Supercomputing '90**

Publisher: IEEE Computer Society

Full text available:  pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Parallel programs consist of a group of sequentially executing sub-computations which

cooperate to solve a problem. To exploit existing sequential code and available optimization tools, programmers usually choose to write these sub-computations in traditional imperative languages such as C and Fortran. A coordination language expresses data exchange and synchronization among such sub-computations. Current coordination languages support a variety of interaction models. Delirium introduces a new, ...

59 Information retrieval 2: Text joins in an RDBMS for web data integration



Luis Gravano, Panagiotis G. Ipeirotis, Nick Koudas, Divesh Srivastava

May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available: pdf(717.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

The integration of data produced and collected across autonomous, heterogeneous web services is an increasingly important and challenging problem. Due to the lack of global identifiers, the same entity (e.g., a product) might have different textual representations across databases. Textual data is also often noisy because of transcription errors, incomplete information, and lack of standard formats. A fundamental task during data integration is matching of strings that refer to the same entity. ...

Keywords: approximate text matching, data cleaning, text indexing

60 From trace generation to visualization: a performance framework for distributed parallel systems

C. Eric Wu, Anthony Bolmarcich, Marc Snir, David Wootton, Farid Parpia, Anthony Chan, Ewing Lusk, William Gropp

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '00**

Publisher: IEEE Computer Society

Full text available: pdf(544.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)
[Publisher Site](#)

In this paper we describe a trace analysis framework, from trace generation to visualization. It includes a unified tracing facility on IBM SP systems, a self-defining interval file format, an API for framework extensions, utilities for merging and statistics generation, and a visualization tool with preview and multiple time-space diagrams. The trace environment is extremely scalable, and combines MPI events with system activities in the same set of trace files, one for each SMP node. Sin ...

Keywords: distributed parallel systems, SMP clusters, trace generation, intervalfile format, multiple time-space diagrams, trace visualization

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Relevance scale ☐ ☐ ☐ ☐ ☐

61 [Optimistic replication](#)



Yasushi Saito, Marc Shapiro

March 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 1

Publisher: ACM Press

Full text available: [pdf\(656.72 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data replication is a key technology in distributed systems that enables higher availability and performance. This article surveys optimistic replication algorithms. They allow replica contents to diverge in the short term to support concurrent work practices and tolerate failures in low-quality communication links. The importance of such techniques is increasing as collaboration through wide-area and mobile networks becomes popular. Optimistic replication deploys algorithms not seen in tradition ...

Keywords: Replication, disconnected operation, distributed systems, large scale systems, optimistic techniques

62 [Building quantum wires: the long and the short of it](#)




Mark Oskin, Frederic T. Chong, Isaac L. Chuang, John Kubitowicz

May 2003 **ACM SIGARCH Computer Architecture News , Proceedings of the 30th annual international symposium on Computer architecture ISCA '03**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: [pdf\(267.28 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#),

Full text available:  [pdf\(816.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper summarizes the present state of research in scene analysis. It identifies fundamental information processing principles relevant to representation and Use of knowledge in vision and traces limitations of existing programs to compromises of these principles necessitated by extant processors Some specific and general recommendations are offered regarding a productive course of research for the next decade.


64 Risks to the public: Risks to the public in computers and related systems



Peter G. Neumann

May 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.92 MB\)](#) Additional Information: [full citation](#)


65 Ontologies: Web ontology segmentation: analysis, classification and use



Julian Seidenberg, Alan Rector

May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available:  [pdf\(683.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Ontologies are at the heart of the semantic web. They define the concepts and relationships that make global interoperability possible. However, as these ontologies grow in size they become more and more difficult to create, use, understand, maintain, transform and classify. We present and evaluate several algorithms for extracting relevant segments out of large description logic ontologies for the purposes of increasing tractability for both humans and computers. The segments are not mere fragm ...

Keywords: OWL, Semantic Web, ontology, scalability, segmentation

66 Extracting predicates from mining models for efficient query evaluation



Surajit Chaudhuri, Vivek Narasayya, Sunita Sarawagi

September 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(698.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Modern relational database systems are beginning to support ad hoc queries on mining models. In this article, we explore novel techniques for optimizing queries that contain predicates on the results of application of mining models to relational data. For such queries, we use the internal structure of the mining model to automatically derive traditional database predicates. We present algorithms for deriving such predicates for a large class of popular discrete mining models: decision trees, nai ...

Keywords: Complex predicate optimization, simpler rules from complex predictive functions


67 AGM: a dataflow database machine



Lubomir Bic, Robert L. Hartmann

March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(2.69 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

[terms, review](#)

In recent years, a number of database machines consisting of large numbers of parallel processing elements have been proposed. Unfortunately, there are two main limitations in database processing that prevent a high degree of parallelism; these are the available I/O bandwidth of the underlying storage devices and the concurrency control mechanisms necessary to guarantee data integrity. The main problem with conventional approaches is the lack of a computational model capable of utilizing th ...

68 [Scrap your boilerplate: a practical design pattern for generic programming](#)



Ralf Lämmel, Simon Peyton Jones

January 2003 **ACM SIGPLAN Notices , Proceedings of the 2003 ACM SIGPLAN international workshop on Types in languages design and implementation TLDI '03**, Volume 38 Issue 3

Publisher: ACM Press

Full text available: [pdf\(120.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a design pattern for writing programs that traverse data structures built from rich mutually-recursive data types. Such programs often have a great deal of "boilerplate" code that simply walks the structure, hiding a small amount of "real" code that constitutes the reason for the traversal. Our technique allows most of this boilerplate to be written once and for all, or even generated mechanically, leaving the programmer free to concentrate on the important part of the algorithm. Thes ...

Keywords: generic programming, rank-2 types, traversal, type cast

69 [Linear analysis and optimization of stream programs](#)



Andrew A. Lamb, William Thies, Saman Amarasinghe

May 2003 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation PLDI '03**, Volume 38 Issue 5

Publisher: ACM Press

Full text available: [pdf\(489.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As more complex DSP algorithms are realized in practice, there is an increasing need for high-level stream abstractions that can be compiled without sacrificing efficiency. Toward this end, we present a set of aggressive optimizations that target linear sections of a stream program. Our input language is StreamIt, which represents programs as a hierarchical graph of autonomous filters. A filter is linear if each of its outputs can be represented as an affine combination of its inputs. Linearity ...

Keywords: DSP, FFT, StreamIt, algebraic simplification, embedded, linear systems, optimization, stream programming

70 [Launching the new era](#)



Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama, Evan Tick

March 1993 **Communications of the ACM**, Volume 36 Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.45 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

71 [Astrolabe: A robust and scalable technology for distributed system monitoring.](#)



management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

Publisher: ACM Press

Full text available: pdf(341.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

72 Structured document handling—a case for integrating databases and information retrieval



Klemens Böhm, Adrian Müller, Erich Neuhold

November 1994 **Proceedings of the third international conference on Information and knowledge management CIKM '94**

Publisher: ACM Press

Full text available: pdf(1.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we discuss the structured multimedia documents that will be, or already are, to some degree the communication backbone of the so-called superhighways. It will be shown that storage and retrieval of such documents will best be handled by an integration of database and information retrieval technologies. We assume documents to be structured with the help of standards like SGML/HyTime and represented by the multitude of formats currently used for multimedia data. Starti ...

73 A survey of research and practices of Network-on-chip



Tobias Bjerregaard, Shankar Mahadevan

June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The scaling of microchip technologies has enabled large scale systems-on-chip (SoC). Network-on-chip (NoC) research addresses global communication in SoC, involving (i) a move from computation-centric to communication-centric design and (ii) the implementation of scalable communication structures. This survey presents a perspective on existing NoC research. We define the following abstractions: system, network adapter, network, and link to explain and structure the fundamental concepts. First, r ...

Keywords: Chip-area networks, GALS, GSI design, NoC, OCP, SoC, ULSI design, communication abstractions, communication-centric design, interconnects, network-on-chip, on-chip communication, sockets, system-on-chip


74 Experience with an uncommon Lisp



Cyril N. Alberga, Chris Bosman-Clark, Martin Mikelsons, Mary S. Van Deusen, Julian Padget

August 1986 **Proceedings of the 1986 ACM conference on LISP and functional programming LFP '86**

Publisher: ACM Press


Full text available:  pdf(1.62 MB) Additional Information: [full citation](#), [references](#), [citations](#)

75 Measuring system normality



Mark Burgess, Hårek Haugerud, Sigmund Straumsnes, Trond Reitan
May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2

Publisher: ACM Press

Full text available:  pdf(794.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A comparative analysis of transaction time-series is made, for light to moderately loaded hosts, motivated by the problem of anomaly detection in computers. Criteria for measuring the statistical state of hosts are examined. Applying a scaling transformation to the measured data, it is found that the distribution of fluctuations about the mean is closely approximated by a steady-state, maximum-entropy distribution, modulated by a periodic variation. The shape of the distribution, under these con ...


Keywords: Anomaly detection, statistical mechanics

76 Data protection: Secure attribute-based systems



Matthew Pirretti, Patrick Traynor, Patrick McDaniel, Brent Waters
October 2006 **Proceedings of the 13th ACM conference on Computer and communications security CCS '06**

Publisher: ACM Press

Full text available:  pdf(1.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Attributes define, classify, or annotate the datum to which they are assigned. However, traditional attribute architectures and cryptosystems are ill-equipped to provide security in the face of diverse access requirements and environments. In this paper, we introduce a novel secure information management architecture based on emerging attribute-based encryption (ABE) primitives. A policy system that meets the needs of complex policies is defined and illustrated. Based on the needs of those polic ...

Keywords: applied cryptography, attribute-based encryption, secure systems

77 Articles on microarray data mining: Meta-clustering of gene expression data and literature-based information



Patrick Glenisson, Janick Mathys, Bart De Moor
December 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 2

Publisher: ACM Press

Full text available:  pdf(791.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The current tendency in the life sciences to spawn ever growing amounts of high-throughput assays has led to a situation where the interpretation of data and the formulation of hypotheses lag the pace at which information is produced. Although the first generation of statistical algorithms scrutinizing single, large-scale data sets found their way into the biological community, the great challenge to connect their results to existing knowledge still remains. Despite the fairly large number of bi ...

Keywords: data fusion, expression analysis, text mining

78 Undergraduate embedded system education at Carnegie Mellon



Philip Koopman, Howie Choset, Rajeev Gandhi, Bruce Krogh, Diana Marculescu, Priya Narasimhan, Joann M. Paul, Ragunathan Rajkumar, Daniel Siewiorek, Asim Smailagic, Peter Steenkiste, Donald E. Thomas, Chenxi Wang

August 2005 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 4 Issue 3

Publisher: ACM Press

Full text available:  pdf(162.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Embedded systems encompass a wide range of applications, technologies, and disciplines, necessitating a broad approach to education. We describe embedded system coursework during the first 4 years of university education (the U.S. undergraduate level). Embedded application curriculum areas include: small and single-microcontroller applications, control systems, distributed embedded control, system-on-chip, networking, embedded PCs, critical systems, robotics, computer peripherals, wireless data ...

Keywords: Embedded systems education, curriculum

79 Multimedia document architecture (panel session)



Stephen Bullick, Terry Crowley, Lester Ludwig, Jonathan Rosenberg

August 1990 **ACM SIGGRAPH 90 Panel Proceedings SIGGRAPH '90**

Publisher: ACM Press

Full text available:  pdf(4.35 MB) Additional Information: [full citation](#), [index terms](#)



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81 [Memory Ordering: A Value-Based Approach](#)



Harold W. Cain, Mikko H. Lipasti

March 2004 **ACM SIGARCH Computer Architecture News , Proceedings of the 31st annual international symposium on Computer architecture ISCA '04,**
Volume 32 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(244.36 KB) Additional Information: [full citation](#), [abstract](#), [citations](#)

Conventional out-of-order processors employ a multi-ported, fully-associative load queue to guarantee correct memory reference order both within a single thread of execution and across threads in a multiprocessor system. As improvements in process technology and pipelining lead to higher clock frequencies, scaling this complex structure to accommodate a larger number of in-flight loads becomes difficult if not impossible. Furthermore, each access to this complex structure consumes excessive amounts of energy.

82 [VIRTUS: a collaborative multi-user platform](#)



Kurt Saar

February 1999 **Proceedings of the fourth symposium on Virtual reality modeling language VRML '99**

Publisher: ACM Press

Full text available: pdf(4.09 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: VRML, VRML event model, architecture construction engineering (ACE), collaborative virtual environment (CVE), computer supported collaborative work (CSCW), dead reckoning, distributed environments, living worlds, multi-user technologies, virtual environments, virtual worlds

83 [Query optimization in distributed networks of autonomous database systems](#)



Fragkiskos Pentaris, Yannis Ioannidis

June 2006 **ACM Transactions on Database Systems (TODS),** Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(1.55 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Large-scale distributed environments, where each node is completely autonomous and offers services to its peers through external communication, pose significant challenges to

query processing and optimization. Autonomy is the main source of the problem, as it results in lack of knowledge about any particular node with respect to the information it can produce and its characteristics, for example, cost of production or quality of produced results. In this article, inspired by e-commerce technolog ...

Keywords: Query optimization

84 Intriguing technology from OOPSLA: Architecture and design of adaptive object-models



Joseph W. Yoder, Federico Balaguer, Ralph Johnson
December 2001 **ACM SIGPLAN Notices**, Volume 36 Issue 12

Publisher: ACM Press

Full text available: pdf(1.52 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many object-oriented information systems share an architectural style that emphasizes flexibility and run-time adaptability. Business rules are stored externally to the program such as in a database or XML files instead of in code. The object model that the user cares about is part of the database, and the object model of the code is just an interpreter of the users' object model. We call these systems "Adaptive Object-Models", because the users' object model is interpreted at runtime and can be ...

Keywords: adaptive object-model, adaptive systems, dynamic object-model, meta-architectures, metadata, patterns, reflection, reflective systems meta-modeling

85 Decentralizing a global naming service for improved performance and fault tolerance



D. R. Cheriton, T. P. Mann
May 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available: pdf(3.19 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Naming is an important aspect of distributed system design. A naming system allows users and programs to assign character-string names to objects, and subsequently use the names to refer to those objects. With the interconnection of clusters of computers by wide-area networks and internetworks, the domain over which naming systems must function is growing to encompass the entire world. In this paper we address the problem of a global naming system, proposing a three-level naming ...

86 The berkeley UNIX consultant project

Robert Wilensky, David N. Chin, Marc Luria, James Martin, James Mayfield, Dekai Wu
December 1988 **Computational Linguistics**, Volume 14 Issue 4

Publisher: MIT Press

Full text available: pdf(4.41 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
[Publisher Site](#)

UC (UNIX Consultant) is an intelligent, natural language interface that allows naive users to learn about the UNIX² operating system. UC was undertaken because the task was thought to be both a fertile domain for artificial intelligence (AI) research and a useful application of AI work in planning, reasoning, natural language processing, and knowledge representation. The current implementation of UC comprises the following components: a language analyzer, called ALANA, produces a repre ...

87 Harnessing technology for effective inter- and intra-institutional collaboration: report of the ITiCSE '97 working group on supporting inter- and intra-institutional





collaboration

Douglas Siviter, Marian Petre, Bruce Klein
October 1997 **ACM SIGCUE Outlook**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.66 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The computer science discipline is well poised to provide leading examples of harnessing communications and computer technologies in order to encourage collaborative practices both within and between institutions. Students, academics, and institutions all potentially have access to their counterparts world-wide. This provides endless opportunities for sharing knowledge, accessing scarce expertise, making effective re-use of limited resources, collaborating to attract funding and influence policy ...

88 Harnessing technology for effective inter- and intra-institutional collaboration (report of the ITiCSE '97 working group on supporting inter- and intra institutional collaboration)



Douglas Siviter, Marian Petre, Bruce Klein

June 1997 **The supplemental proceedings of the conference on Integrating technology into computer science education: working group reports and supplemental proceedings ITiCSE-WGR '97**

Publisher: ACM Press

Full text available: [pdf\(145.01 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

89 TIMBER: A native XML database

H. V. Jagadish, S. Al-Khalifa, A. Chapman, L. V. S. Lakshmanan, A. Nierman, S. Paparizos, J. M. Patel, D. Srivastava, N. Wiwatwattana, Y. Wu, C. Yu

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(268.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper describes the overall design and architecture of the Timber XML database system currently being implemented at the University of Michigan. The system is based upon a bulk algebra for manipulating trees, and natively stores XML. New access methods have been developed to evaluate queries in the XML context, and new cost estimation and query optimization techniques have also been developed. We present performance numbers to support some of our design decisions. We believe that the key in ...

Keywords: Algebra, Document management, Hierarchical, Query processing, Semi-structured

90 EMERALDS: a small-memory real-time microkernel



Khawar M. Zuberi, Padmanabhan Pillai, Kang G. Shin

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: [pdf\(1.59 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

EMERALDS (Extensible Microkernel for Embedded, ReAL-time, Distributed Systems) is a real-time microkernel designed for small-memory embedded applications. These applications must run on slow (15-25MHz) processors with just 32-128 kbytes of memory, either to keep production costs down in mass-produced systems or to keep weight and

power consumption low. To be feasible for such applications, the OS must not only be small in size (less than 20 kbytes), but also have low-overhead kernel services. Un ...

91 SPV: secure path vector routing for securing BGP



Yih-Chun Hu, Adrian Perrig, Marvin Sirbu

August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '04**, Volume 34 Issue 4

Publisher: ACM Press

Full text available: pdf(236.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As our economy and critical infrastructure increasingly relies on the Internet, the insecurity of the underlying border gateway routing protocol (BGP) stands out as the Achilles heel. Recent misconfigurations and attacks have demonstrated the brittleness of BGP. Securing BGP has become a priority. In this paper, we focus on a viable deployment path to secure BGP. We analyze security requirements, and consider tradeoffs of mechanisms that achieve the requirements. In particular, we study how to se ...

Keywords: BGP, Border Gateway Protocol, interdomain routing, routing, security

92 Robust PCFG-based generation using automatically acquired LFG approximations

Aoife Cahill, Josef van Genabith.

July 2006 **Proceedings of the 21st International Conference on Computational Linguistics and the 44th annual meeting of the ACL ACL '06**

Publisher: Association for Computational Linguistics

Full text available: pdf(140.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We present a novel PCFG-based architecture for robust probabilistic generation based on wide-coverage LFG approximations (Cahill et al., 2004) automatically extracted from treebanks, maximising the probability of a tree given an f-structure. We evaluate our approach using string-based evaluation. We currently achieve coverage of 95.26%, a BLEU score of 0.7227 and string accuracy of 0.7476 on the Penn-II WSJ Section 23 sentences of length ≤ 20 .

93 Challenges and design choices in nanoscale CMOS



Siva G. Narendra

March 2005 **ACM Journal on Emerging Technologies in Computing Systems (JETC)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(5.35 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The driving force for the semiconductor industry growth has been the elegant scaling nature of CMOS technology. In this article, we will first review the history of technology scaling that follows Moore's law from the perspective of microprocessor designs. Challenges to continue the historical scaling trends will be highlighted and design choices to address two specific challenges, process variation and leakage power, will be discussed. In nanoscale CMOS technology generations, supply and thresh ...


Keywords: CMOS, leakage power, nanoscale, process variation

94 Consistency management in Deno

Peter J. Keleher, Ugur Cetintemel

December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(151.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a new replicated‐object protocol designed for use in mobile and weakly‐connected environments. The protocol differs from previous protocols in combining epidemic information propagation with voting, and in using fixed per‐object currencies for voting. The advantage of epidemic protocols is that data movement only requires pair‐wise communication. Hence, there is no need for a majority quorum to be available and simultaneously connected at any single time. Th ...

95 [A Polyalgorithm for the Numerical Solution of Ordinary Differential Equations](#)



G. D. Byrne, A. C. Hindmarsh

March 1975 **ACM Transactions on Mathematical Software (TOMS)**, Volume 1 Issue 1

Publisher: ACM Press


Full text available:  [pdf\(1.53 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

96 [Automatic detection of text genre](#)

Brett Kessler, Geoffrey Numberg, Hinrich Schütze

July 1997 **Proceedings of the 35th annual meeting on Association for Computational Linguistics , Proceedings of the eighth conference on European chapter of the Association for Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available:  [pdf\(644.54 KB\)](#)



[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

As the text databases available to users become larger and more heterogeneous, genre becomes increasingly important for computational linguistics as a complement to topical and structural principles of classification. We propose a theory of genres as bundles of *facets*, which correlate with various surface cues, and argue that genre detection based on surface cues is as successful as detection based on deeper structural properties.

97 [Contributions: Interactive computer graphics with the UNIX time-sharing system](#)



Thomas E. Ferrin, Robert Langridge

February 1980 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(907.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The UNIX+ time-sharing system is a powerful and efficient multiuser operating system possessing many unique and attractive advantages. In order to fully support an interactive graphics facility, however, several minor extensions were made to provide the necessary high performance 'real-time' environment. These enhancements to the UNIX system are described together with the implementation details for the Picture System 2 Graphic Subroutine Package.

98 [2a---Rhetoric and Hypertext: And And: conjunctive hypertext and the structure acteme juncture](#)



Jim Rosenberg

September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia HYPertext '01**

Publisher: ACM Press

Full text available:  [pdf\(141.67 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In conjunctive hypertext, activities are combined into a whole as opposed to being alternatives. A single localized construct may contain several actemes. Their relationship

may be ambiguous, they may be peers, may have space relationships or time relationships. The conjunction must be actualized, by such devices as co-presentation, delegated presentation, peer traverse, and subscreening. An incomplete conjunction contains pending structure which must be indicated. Actemes may have generalize ...

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The rules for doing this are discussed in the. section Coercion of Values (**page 43**). Non-**atomic** objects (such as lists and data frames) allow you to combine ...
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environmental effects, **atomic** oxygen, etc.) shall be considered in the design and ...
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The IMF has **identified** 11 areas and associated standards, based in large part on the ...
those with highly specific or easily **identified points** of origin. ...

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A shutter **piece** 173B projects from an edge of shutter member 173 and slits S1-S4 in shutter member 173 **divide** shutter member 173 at 90 degree intervals. ...

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combined the functions of its predecessors: the **Atomic** Energy Commission (AEC), ... **division**; 2) **division** leaders **identified positions** subject to the RIF, ...

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identified positions can be further optimized by techniques such as saturation- or ... Native **PAGE** was also utilized to determine the isoelectric **point** of ...

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the question of whether "Agent" has a more "**atomic**" meaning underlying ... two grammatically-**identified positions** (presumably, Croft assumes these are more ...

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marrow, where they normally **divide** infrequently to produce more stem cells for self- ... The **identified positions** were consistent with the assigned syntenic ...

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If we **divide** the support of a pattern by the sequence length in time plus the window ... of

the interval and the side that uses the **identified positions** ...

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tirement, all at different **points** in their lives ... applicants; (c) **identified positions** for Indigenous staff; (d) participation in the National Indigenous ...

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the **identified positions**, as defined in the Plan for Needed Knowledge and Skills ...

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"initial" is given to the staged representation starting **point**. ... the **identified positions**, as defined in the Plan for Needed Knowledge and Skills ...

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endonucleolytic cleavage at two **identified positions**. After induction of cytokines ... dimension according to their molecular **weight** by SDS-PAGE. Although ...

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fundamental (e.g., **atomic**) unit of process definition and describes the ... the **identified positions**, as defined in the Plan for Needed Knowledge and Skills ...

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(1) MEDCOM has **identified positions** in Army ... If the **weight** fraction is less than 1/2 pound, round down to the nearest pound. b. If the **weight** fraction is ...
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hypomethylation of the **identified positions** correlates well with KLK6 overexpression ... formation of loose hydrated matrices that allow cells to **divide** and ...
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By **dividing** the residues that lie close together in space into overlapping ... None have **identified positions** 39 and 34 as key in determining the affinity ...
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ANG., the **atomic** radii given in Table 7, and the method of Lee and Richards (LEEB71). ... None have **identified positions** 39 and 34 as key in determining the ...
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pieces were re-swollen with 40 ng/ml trypsin (Promega, Madison, WI, USA) in enzyme buffer ... were **identified (positions** 18–20, 178–180 [this region ...
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identified points can then be connected by a seed and grow algorithm, ... The **identified locations** are connected in a way similar to Pritchard's approach. ...

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Example: This would show the code value for **piece** for the number of **pieces** to ... A tabulation of uniquely **identified locations** around the world for the ...

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Management and the **Atomic** Energy Commission (AEC) were under pressure to maximize ... Interviews with current and former workers **identified locations** where ...

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The glass strands shall form 65 percent to 75 percent of the **weight** of the dowels. ... Water quality sampling shall be conducted at all **identified locations** ...

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hoist **point** fastener. A lower skin to fuselage splice **piece**. (14880) also shows thermal damage on the ... clearly **identified locations**, shapes, sizes, ...
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was used to **divide** the watershed into a suitable number of hydrologically connected ... They correspond well with field-**identified locations**. Subsequent ...
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stream structures – The City has **identified locations** where storm sewers are ... at the **point** of impact is an essential component of any stormwater ...
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identified locations, or Industrial. Infrastructure Development Centres ... This **Division** acts as nodal **point** for the. following. Joint. Commissions/Inter- ...
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centres and other **identified locations**, or ... This **Division** acts as the nodal **point** for ... the Department of **Atomic** Energy (S.O. 212(E), dated the 15 ...
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analysis **identified locations** where there were changes in the ... This project was able to **divide** the Archean intrusive rocks into 4 separate phases ...

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1088, 746, CS, A tabulation of uniquely **identified locations** around the world ... **Weight**.

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(USFWS 1993) which **identified locations** of contaminated sites and ... Six survey **points** on Amchitka were observed by GPS in 2001 by the UAF/CRESP team. ...

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points. In short, the traditional manner of calculating compliance rates says ... of **identified locations** where there is a leaking underground storage tank ...

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dividing the number of facilities with significant violations by the total number ... **Identified locations** where there is a leaking underground storage tank ...

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Do not hesitate to **point** out perceived safety deficiencies to your supervisor or the competent person ... PPE in **identified locations** or work situations. ...

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A longer version of this **piece** also appeared in the winter ... challenging local commanders to remedy problems in **identified locations**. (This ...

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may expose runtime information to a **piece** of advice. 4.3.3 Join **Point** and Pointcut

Types ... At the **identified locations**, the source code is modified by ...

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DOE has not **identified locations** for siting concrete pre-cast plants. ... for legal- **weight** truck (LWT) shipments to Yucca Mountain; two existing railroads ...

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be **identified**. **Locations** of beaches, marinas, sport fishing areas, ... conversion is dependent on the **atomic** molecular **weight** of the contaminant. ...

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This rate is computed by **dividing** the total number of mission segment ... from Defense Logistics Agency depots to **identified locations** in Section B. 9.2. ...
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The chlorine-36 analyses **identified locations** where water has moved fairly ... Section 3.1.4.2.1 of the EIS indicates that the primary discharge **point** for ...
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Reportedly, we **identified locations** and support networks for al-Qaeda and the ... Major-
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Heavy Metal analysis: 3.1 Atomic Absorption Spectrophotometer I. Varian ... all project
plans (EIA and EMP documents) in pre-**identified locations**. ...
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Figure 2.3: **Piece-wise** linear model of a JJ in the SPICE-based simulator
JSIM.....16 ... The complete list of **identified locations** is given in Table 6.3. ...
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street or alley shall be, at its lowest **point**, 10 ... area at **identified locations**. • Color:
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Unied Kingdom **Atomic** Energy Authority in 1999. Decision Document. ... nuclear fuel from two of the **identified locations**, namely Crosskirk and Brims Ness to ...
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of all **identified locations**. This program of conducting unannounced ...

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was used to **divide** the watershed into a suitable number of hydrologically connected ...

They correspond well with field-**identified locations**. Subsequent ...

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Based on a **regression** analysis completed on the data set generated from the ... while the
boundaries have not been approved, the **identified locations** are ...

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regression are noted here. For example, road dust Pb concentration was not ... **identified**
locations at which Pb concentrations exceeded the EPA AWQC and for ...

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indicated a chloride concentration in excess of 2000 PPM by **weight** of cement, ... potential
more negative than -0.254V. Of the four **identified locations** ...

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